

ROCKBUSTER DATA DICTIONARY

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1. Entity Relationship Diagram



Figure 1. DbVisualizerERD from the Rockbuster database

2. Fact and the dimension tables in Rockbuster database

A) RENTAL DATA TABLES

2.1 Rental Fact Table

Rental Fact table	Columns	Data Type	Description
	rental_id	SERIAL	Primary key. The unique id assigned to each movie rental
	rental_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time of the rental
	inventory_id	INTEGER	Foreign key to inventory table. The id assigned for record-keeping
	customer_id	SMALLINT	Foreign key to customer table. Unique means of identification for the customers
	return_date	TIMESTAMP(6) WITHOUT TIME ZONE	The date and time of return
	staff_id	SMALLINT	Foreign key to staff table. Staff identification number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status

2.2 Payment Fact Table

Payment Fact table	Columns	Data Type	Description
	payment_id	SERIAL	Primary key. The id assigned for record-keeping
	customer_id	SMALLINT	Foreign key to customer table. Unique means of identification for the customers
	staff_id	SMALLINT	Foreign key to staff table. Staff identification number
	rental_id	INTEGER	Foreign key to rental table. The unique id assigned to each movie rental
	amount	NUMERIC(5,2)	The amount paid by the customer
	payment_date	TIMESTAMP(6) WITHOUT TIME ZONE	Time of payment

B) FILM CATEGORY DATA TABLES

2.3 Film_Category Dimension Table

Film Category Dimension Table	Columns	Data Type	Description
	film_id	SMALLINT	Primary key. The unique id assigned to each movie
	category_id	SMALLINT	Primary key. The unique id assigned to each film category
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status

2.4 Category Dimension Table

Category Dimension Table	Columns	Data Type	Description
	category_id	SERIAL	Primary key. The unique id assigned to each film category
	name	CHARACTER VARYING (25)	Name of the film category (Genre)
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status

C) FILM INVENTORY DATA TABLES

2.5 Inventory Dimension Table

Inventory Dimension Table	Columns	Data Type	Description
	inventory_id	SERIAL	Primary key. Unique id assigned for record-keeping
	film_id	SMALLINT	Foreign key to film table. Unique id assigned to each movie
	store_id	SMALLINT	Foreign key to store table. Unique id assigned to each store
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status

2.6 Film Dimension Table

Film Dimension Table	Columns	Data Type	Description
	film_id	SERIAL	Primary key. Unique id assigned to each movie
	title	CHARACTER VARYING (255)	Title of the film
	description	TEXT	Description of the film
	release_year	Year	Year the film was released
	language_id	SMALLINT	Foreign key to language table. Type of language used
	rental_duration	SMALLINT	Duration (in days) of the rental of the film
	rental_rate	NUMERIC (4,2)	Cost of renting the film
	length	SMALLINT	Duration of the film in minutes
	replacement cost	NUMERIC (5,2)	A cost of film replacement
	rating	mpaa_rating	Rating of the film by the motion picture association.
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status
	special features	TEXT []	Refers to special features that the rental includes
	fulltext	TSVECTOR	Text is organized in an optimized form for text search.

2.7 Language Dimension Table

Language Dimension Table	Columns	Data Type	Description
	language_id	SERIAL	Primary key. ID assigned to language(s) movie is available in
	name	CHARACTER(20)	Name of language
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status

2.8 Film_actor Dimension Table

Film_actor Dimension Table	Columns	Data type	Description
	actor_id	SMALLINT	Primary key to the actor table
	film_id	SMALLINT	Primary key to the film table
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status

2.9 Actor DimensionTable

actor Dimension Table	Columns	Data type	Description
	actor_id	SERIAL	Primary key. Unique identifier allocated to each actor.
	first_name	CHARACTER VARYING (45)	Person's name
	last_name	CHARACTER VARYING (45)	Person's surname
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status

D) PEOPLE DATA TABLES

2.10 Customer Dimension Table

customer Dimension Table	Columns	Data Type	Description
	customer_id	SERIAL	Primary key. Unique means of identification for the customers
	store_id	SMALLINT	Foreign key. Unique id assigned to each store
	first_name	CHARACTER VARYING(45)	First name of customer
	last_name	CHARACTER VARYING(45)	Last name of customer
	email	CHARACTER VARYING(50)	Email address of customer
	address_id	SMALLINT	Postal address of customer
	activebool	BOOLEAN	Status whether customer is active or not
	create_date	DATE	Creation date
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status
	active	INTEGER	Number indicating customer state (true or false)

2.11 Staff Dimension Table

staff Dimension Table	Columns	Data Type	Description
	staff_id	SERIAL	Primary key. The id assigned to each staff
	first_name	CHARACTER VARYING(45)	First name of staff
	last_name	CHARACTER VARYING(45)	Last name of staff
	address_id	SMALLINT	Foreign key to address table. Postal address of staff
	email	CHARACTER VARYING(50)	Email address of staff
	store_id	SMALLINT	Foreign key to store table The unique id assigned to each store
	active	BOOLEAN	Status whether customer is active or not

	username	CHARACTER VARYING(16)	Username of staff
	password	CHARACTER VARYING(40)	Password of staff
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status
	picture	BYTEA	Picture of staff

E) LOCATION DATA TABLES

2.12 Store Dimension Table

store Dimension Table	Columns	Data type	Description
	store_id	SERIAL	Primary key. Unique identifier of the store
	manager_staff_id	SMALLINT	Foreign key . Unique identifier of the manager staff Id.
	address_id	SMALLINT	Foreign key to address table.
	last_update	TIMESTAMP (6) WITHOUT TIME ZONE	Time of last updated status

2.13 Address Dimension Table

address Dimension Table	Columns	Data Type	Description
	address_id	SERIAL	Primary key. Unique address id identifier
	address	CHARACTER VARYING(50)	Postal address of store
	address2	CHARACTER VARYING(50)	Postal address of store

	district	CHARACTER VARYING(20)	District name
	city_id	SMALLINT	Foreign key. City name
	postal_code	CHARACTER VARYING(10)	Postal Code
	Phone	CHARACTER VARYING(20)	Phone number
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status

2.14 City Dimension Table

city Dimension Table	Columns	Data Type	Description
	city_id	SERIAL	Primary key. Id assigned to City
	name	CHARACTER VARYING(50)	Name of City
	country_id	SMALLINT	Foreign key. Country code
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status

2.15 Country Dimension Table

country Dimension Table	Columns	Data Type	Description
	country_id	SERIAL	Primary key. Country code
	country	CHARACTER VARYING(50)	Name of Country
	last_update	TIMESTAMP(6) WITHOUT TIME ZONE	Time of last updated status